

09/677,653

Set	Items	Description
S1	293	AU='CHRISTIAN P' OR AU='CHRISTIAN P D'
S2	79	AU='CHRISTIAN P.' OR AU='CHRISTIAN P.D.'
S3	35	AU='CHRISTIAN PETER' OR AU='CHRISTIAN PETER D' OR AU='CHRISTIAN PETER DANIEL'
S4	805	AU='GORDON K' OR AU='GORDON K H' OR AU='GORDON K H J' OR AU='GORDON K H JR'
S5	198	AU='GORDON K.'
S6	22	AU='GORDON K.H.' OR AU='GORDON K.H.J.'
S7	26	AU='GORDON KARL' OR AU='GORDON KARL H' OR AU='GORDON KARL H J' OR AU='GORDON KARL HEINRICH' OR AU='GORDON KARL HEINRICH - JULIUS' OR AU='GORDON KARL HIENRICH JULIUS' OR AU='GORDON KARL HJ'
S8	138	AU='HANZLIK T' OR AU='HANZLIK T N' OR AU='HANZLIK T.' OR AU='HANZLIK T.N.' OR AU='HANZLIK TERRY' OR AU='HANZLIK TERRY N' OR AU='HANZLIK TERRY NELSON' OR AU='HANZLIK TN'
S9	369	SMALL(W) RNA(W) VIRUS?
S10	206	HASV
S11	62	ARMIGERA(W) STUNT(W) VIRUS
S12	239	S10 OR S11
S13	51	S8 AND (S9 OR S11)
S14	11	S13 NOT PY>1995
S15	3	RD (unique items)
S16	343571	INSECTICID?
S17	18	S9 AND S16
S18	611918	TOXIN? ?
S19	10	S17 NOT PY>1995
S20	9	RD (unique items)
S21	21	S9 AND S18
S22	7	S21 NOT PY>1995
S23	5	RD (unique items)
S24	18	S11 NOT PY>1995
S25	6	RD (unique items)
S26	229	S9 NOT PY>1994
S27	279706	GUT
S28	6	S26 AND S27
S29	6	RD (unique items)

15/3,AB/1 (Item 1 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

09281471 97201539 PMID: 9049325

**Sequence of RNA2 of the Helicoverpa armigera stunt virus (Tetraviridae) and bacterial expression of its genes.**

Hanzlik T N ; Dorrian S J; Johnson K N; Brooks E M; Gordon K H  
CSIRO Division of Entomology, Canberra, Australia. terryh@ento.csiro.au  
Journal of general virology (ENGLAND) Apr 1995, 76 ( Pt 4) p799-811,  
ISSN 0022-1317 Journal Code: 0077340

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Record type: Completed

The complete nucleotide sequence of RNA2 of *Helicoverpa armigera stunt virus* (HaSV), a member of the Tetraviridae, was determined by characterization of cloned cDNA and PCR products and direct sequencing of genomic RNA. The capped, positive sense, single-stranded RNA is 2478 nucleotides in length and has two overlapping open reading frames (ORFs) likely to be cistrons which are situated between terminal non-coding regions of 282 and 168 bases, 5' and 3', respectively. Extensive secondary structure of the RNA strand is indicated, including a tRNA-like structure at the 3' terminus which is the first such structure discerned in an animal virus. The first ORF encodes a 17 kDa PEST protein (p17) of unknown function while the second ORF encodes the 71 kDa coat protein precursor (p71) that is cleaved at an Asn-Phe site into the 64 kDa and 7 kDa coat proteins. The precursor coat protein is 66% identical to that of another tetravirus, the Nudaurelia omega virus, with most of the difference residing in a 165 amino acid region located in the middle of the sequence. Despite the extensive similarity, no serological relationship was observed between the two viruses, suggesting that the dissimilar region is exposed on the capsid exterior. Expression in bacteria of the two RNA2 gene products shows they are likely to be expressed by a leaky scan-through mechanism. Bacterial expression of p71 did not produce virus-like particles while expression of p17 produced large arrays of mostly hollow, hexagonal tube-like structures.

15/3,AB/2 (Item 2 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

07856914 93389434 PMID: 8376959

**A novel small RNA virus isolated from the cotton bollworm, Helicoverpa armigera.**

Hanzlik T N ; Dorrian S J; Gordon K H; Christian P D  
CSIRO Division of Entomology, Canberra, ACT, Australia.  
Journal of general virology (ENGLAND) Sep 1993, 74 ( Pt 9) p1805-10,  
ISSN 0022-1317 Journal Code: 0077340

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

A small RNA virus with novel characteristics has been isolated from laboratory-bred larvae of *Helicoverpa armigera*. Infection by the *H. armigera stunt virus* causes severe retardation of larval development and subsequent death. Its particles are isometric, 38 nm in diameter, and have a buoyant density of 1.296 g/ml in caesium chloride. The viral capsid has two major non-glycosylated protein components with M(r)s of 65,000 and 6000, and contains a genome composed of two non-polyadenylated single-stranded RNA molecules with lengths of 2.4 kb and 5.5 kb. The 5' termini of these RNAs are capped; their 3' termini are unblocked. In vitro translations of the viral RNAs showed synthesis of large proteins of sizes near the maximum coding capacity of each strand along with synthesis of numerous smaller proteins; no evidence for processing of precursors was seen. The physicochemical properties of the virus are most similar to those

of the Nudaurelia omega virus, a provisional member of the Tetraviridae, although no antigenic relationship was observed between the two viruses. The bipartite genome and distinct capsid structure of these two viruses indicate the existence of a previously unrecognized virus group.

15/3,AB/3 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00256501

**INSECT VIRUSES AND THEIR USES IN PROTECTING PLANTS**

**VIRUS D'INSECTES ET LEURS UTILISATIONS DANS LA PROTECTION DE PLANTES**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 93AU411 19930813 (PCT/WO AU9300411)

Priority Application: AU 924081 19920814; US 9389372 19930708

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FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 40316

**English Abstract**

The present invention relates to an isolated **small RNA virus** capable of infecting insect species including Heliothis species, and to the nucleotide sequences and proteins incoded thereby. The invention contemplates uses of the virus in controlling insect attack in plants.

**French Abstract**

La presente invention concerne un petit virus a ARN isole, pouvant contaminer des especes d'insectes y compris l'espece Heliothis, ainsi que les sequences de nucleotides et les proteines codees par lui. L'invention concerne les utilisations de ce virus contre les attaques des plantes par les insectes.

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	6740	536/23.1.ccls.	USPAT; US-P GPUB	2002/05/29 11:36			0
2	BRS	L2	1223	536/23.4.ccls.	USPAT; US-P GPUB	2002/05/29 11:36			0
3	BRS	L3	1007	536/23.6.ccls.	USPAT; US-P GPUB	2002/05/29 11:36			0
4	BRS	L4	955	536/23.72.ccls.	USPAT; US-P GPUB	2002/05/29 11:36			0
5	BRS	L5	8992	1 or 2 or 3 or 4	USPAT; US-P GPUB	2002/05/29 11:37			0
6	BRS	L6	38	hasv	USPAT; US-P GPUB	2002/05/29 11:37			0
7	BRS	L8	38	6 or 7	USPAT; US-P GPUB	2002/05/29 11:37			0
8	BRS	L7	2	armigera adj stunt adj virus	USPAT; US-P GPUB	2002/05/29 11:38			0
9	BRS	L10	7	5 and 8	USPAT; US-P GPUB	2002/05/29 11:38			0
10	BRS	L11	2651	ricin	USPAT; US-P GPUB	2002/05/29 11:40			0
11	BRS	L12	13	small adj rna adj virus	USPAT; US-P GPUB	2002/05/29 11:41			0
12	BRS	L13	382	5 and 11	USPAT; US-P GPUB	2002/05/29 11:41			0
13	BRS	L14	24221	insecticid\$2	USPAT; US-P GPUB	2002/05/29 11:41			0
14	BRS	L15	41	11 and 14	USPAT; US-P GPUB	2002/05/29 11:42			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
15	BRS	L16	6	5 and 15	USPAT; US-P GPUB	2002/05/29 11:42			0